

To: Brobst, Bob[Brobst.Bob@epa.gov]; Merritt, Steven[Merritt.Steven@epa.gov]
From: Wendi Scholten
Sent: Wed 8/12/2015 8:23:39 PM
Subject: RE: Hach Kits for Water Analysis- Gold King Mine
[Hach-reagents.pdf](#)

Attached is a mock order for all of the reagents (separate from the Required Apparatus from earlier)

I asked about being able to pick up - and that that not an option – they will ship from Ames, IA. None of it is available in Loveland.

Wendi Scholten

Database Manager

G2 Engineering & Management

555 West 48th Ave. Suite D.

Denver, CO 80216-1804

Phone:303-296-0006

Fax:303-296-4515

From: Brobst, Bob [mailto:Brobst.Bob@epa.gov]
Sent: Wednesday, August 12, 2015 2:04 PM
To: Merritt, Steven; Wendi Scholten
Subject: RE: Hach Kits for Water Analysis- Gold King Mine

Steve Beat me to it

Bob

Robert B. Brobst, P.E.

Senior Environmental Engineer

U.S. E.P.A. Region 8

1595 Wynkoop Street

Denver Colorado

303-312-6129 (office)

“It is a capital mistake to theorize before one has data. Insensible one begins to twist facts to suit theories, instead of theories to suit facts.” Arthur Conan Doyle’s A Scandal in Bohemia (1891)

“ The Good thing about science is that it’s true whether or not you believe in it.” Neil deGrasse Tyson

From: Merritt, Steven

Sent: Wednesday, August 12, 2015 2:03 PM

To: Wendi Scholten; Brobst, Bob

Subject: RE: Hach Kits for Water Analysis- Gold King Mine

Order it/pull it. Package it and head to Hach to pick the rest up. See if you can make the FedEx drop-off window in Ft. Collins today and overnight it all down there to meet up with the meter. Call with any questions you have.

Steven B. Merritt, CIH

Industrial Hygienist / Federal On-Scene Coordinator

U.S. Environmental Protection Agency Region 8

1595 Wynkoop ST (8EPR-ER)

Denver, CO 80202-1129

303-312-6146 - Work

303-775-7226 - Mobile

303-312-7203 - Fax

Merritt.Steven@epa.gov



From: Wendi Scholten [<mailto:w.scholten@g2em.com>]

Sent: Wednesday, August 12, 2015 1:52 PM

To: Merritt, Steven; Brobst, Bob

Subject: RE: Hach Kits for Water Analysis- Gold King Mine

Importance: High

Please see attached spreadsheet for Required Apparatus for the reagents.

I have noted what we have, and what will need to be purchased from Hach, the cost, and the availability.

Please let me know if I need to order, or if you have any questions.

Thank you!

Wendi Scholten

Database Manager

G2 Engineering & Management

555 West 48th Ave. Suite D.

Denver, CO 80216-1804

Phone:303-296-0006

Fax:303-296-4515

From: Merritt, Steven [<mailto:Merritt.Steven@epa.gov>]

Sent: Wednesday, August 12, 2015 9:16 AM

To: Brobst, Bob

Cc: w.scholten@g2em.com

Subject: FW: Hach Kits for Water Analysis- Gold King Mine

Here is the discussion.

Steven B. Merritt, CIH

Industrial Hygienist / Federal On-Scene Coordinator

U.S. Environmental Protection Agency Region 8

1595 Wynkoop ST (8EPR-ER)

Denver, CO 80202-1129

303-312-6146 - Work

303-775-7226 - Mobile

303-312-7203 - Fax

Merritt.Steven@epa.gov



From: Merritt, Steven
Sent: Tuesday, August 11, 2015 2:03 PM
To: 'w.scholten@g2em.com'
Cc: Dhieux, Joyel; Gerard, Henry; Powell, Greg
Subject: FW: Hach Kits for Water Analysis- Gold King Mine

Wendi,

Here's where you need to ship this stuff. Do what you need to in order to get the DR2800 off to Durango today. If Hach can't get the reagents out today, we need to find another supplier, if that's possible.

Confirm for me that this is what we're trying to order 100 tests of:

Analyte Range	Part	Method	
Arsenic mg/L	—	Silver Diethyldithiocarbamate 8013	0.020 - 0.200
Chromium, Total 2242500		Alkaline Hypobromite Oxidation Method 8024	0.01 - 0.70 mg/L
Cadmium 0.080 mg/L	2242200	Dithizone 8017	0.0007 –
Lead 0.300 mg/L	2243100	Dithizone 8033	0.003 –
Manganese, LR 0.700 mg/L	2651700	PAN 8149	0.006 -

Joyel and others, please weigh in on this... I know that spectrometry was less desirable, but we have one of these and it's got a decent throughput.

Steven B. Merritt, CIH

Industrial Hygienist / Federal On-Scene Coordinator

U.S. Environmental Protection Agency Region 8

1595 Wynkoop ST (8EPR-ER)

Denver, CO 80202-1129

303-312-6146 - Work

303-775-7226 - Mobile

303-312-7203 - Fax

Merritt.Steven@epa.gov



From: Powell, Greg

Sent: Tuesday, August 11, 2015 11:54 AM

To: Merritt, Steven

Cc: Gerard, Henry; Dhieux, Joyel

Subject: Hach Kits for Water Analysis- Gold King Mine

Greetings:

Trying to see if we can utilize Hach water analysis kits for surface and ground water sampling here at the Gold King Mine site release. Hach kits are regularly used for water treatment

confirmatory sampling. I propose that ten percent of the samples be sent to a lab for confirmation analysis.

We will need to have kits for high, medium and low concentration ranges. I suggest that someone talk to the health people for levels of concern for drinking water, livestock and direct contact numbers.

Attached is some information for Pb, As and Cr. Probably should add Cadmium and Manganese. The key is for ease of use in the field. I do not think we should utilize spectrophotometers. Let me know what you think.

Address:

La Plata County Fairgrounds

2500 Main Ave

Durango, Colorado 81301

Henry cell:(702)501-8036

Steve (303)927-3501

Greg Powell

USEPA-Environmental Response Team

(513)569-7533 office

(513)607-1572 cell

Facts do not cease to exist because they are ignored.

